

( Rudip )

: (1)

CO<sub>2</sub> (APG )

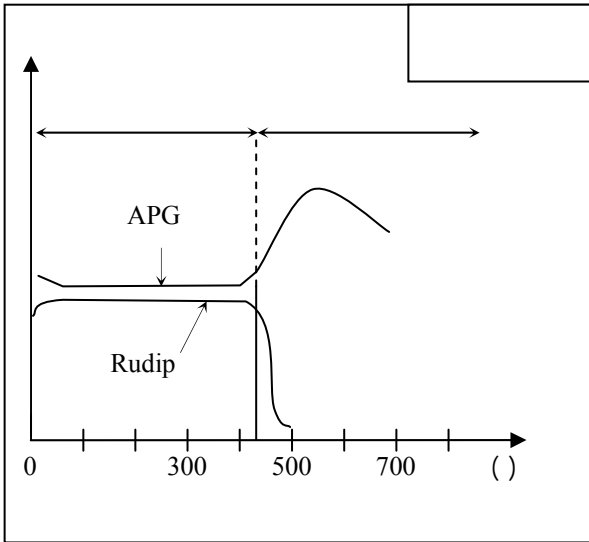
-1

-2

(APG )

- 3

( Rudip )



2900

( 1 )

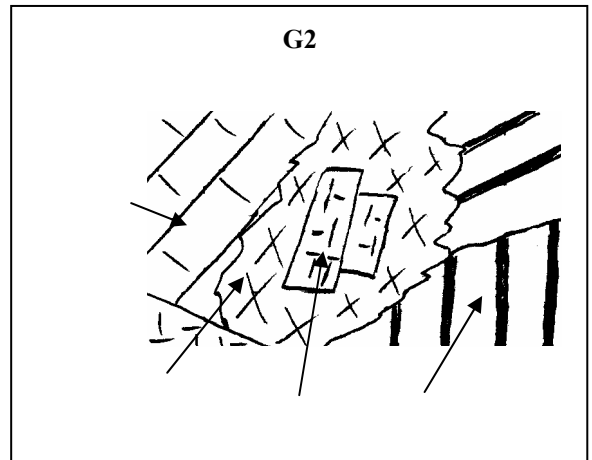
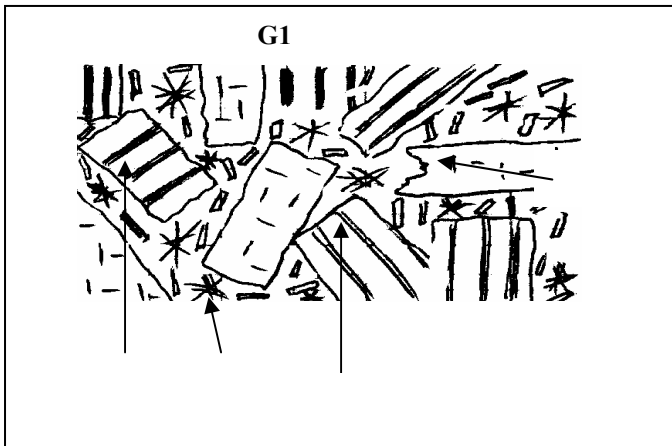
2600

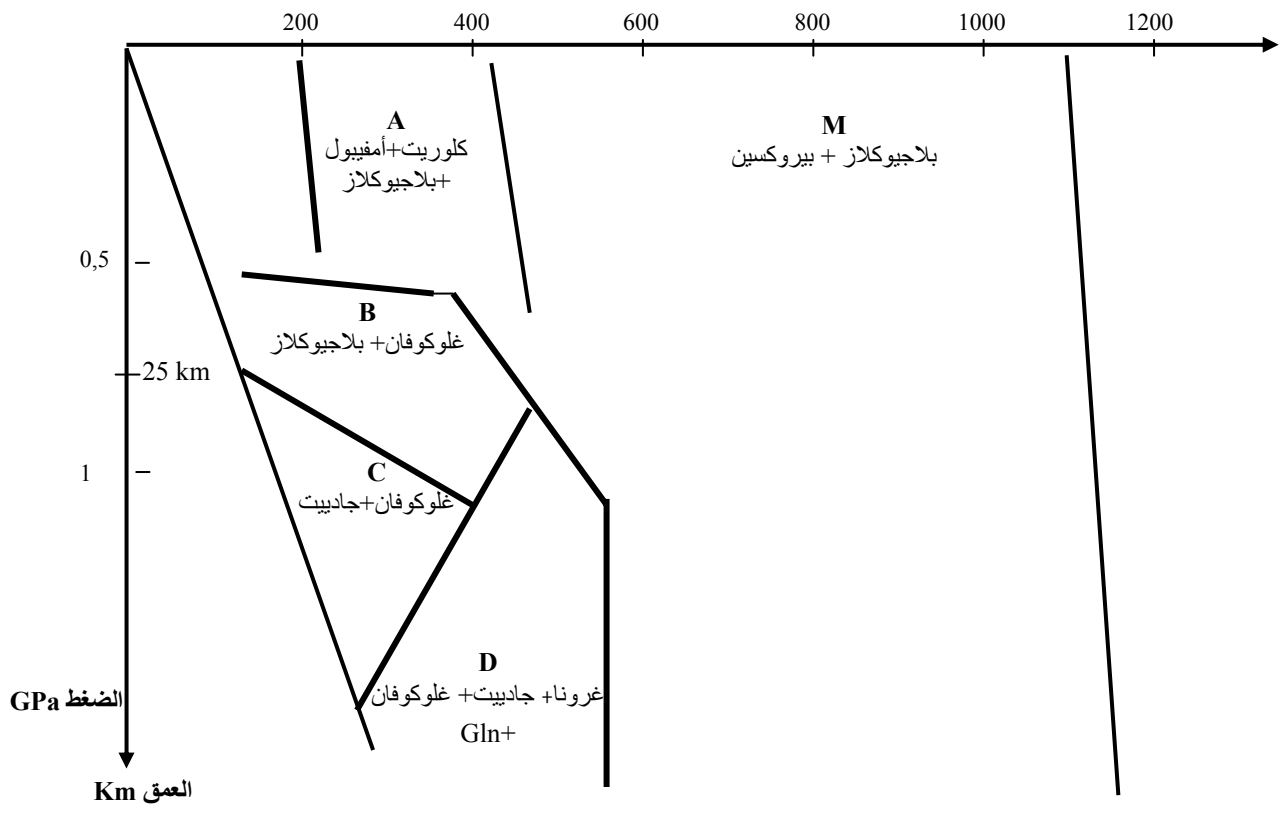
( 1 1 )

( 1 )

(2)

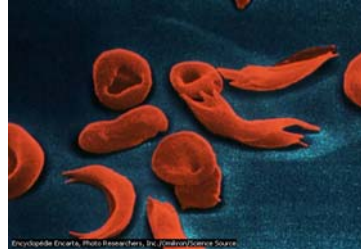
( + )





				1 ,	G1	G2	
G1							: 1
		2900		G2	2600		
					G1	G2	: 1
					(	)	
				+			:M
				+			:A
				+			:B
					+		:C
				+	+		:D
					(	1 1)	-1
		(1)					-2
							-3
							-4
		G2	G1				

:1



⋮

.( ) HbA ARNm : :2  
 ( ) Hb S ARNm :

:( ) Hb A

GUG CAC CUG ACU CCU GAG GAG AAG UCU GCC GUU ARNm

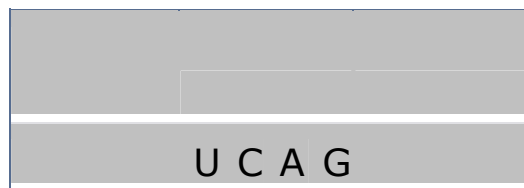
ACU

:( ) Hb S

GUG CAC CUG ACU CCU GUG GAG AAG UCU GCC GUU ARNm

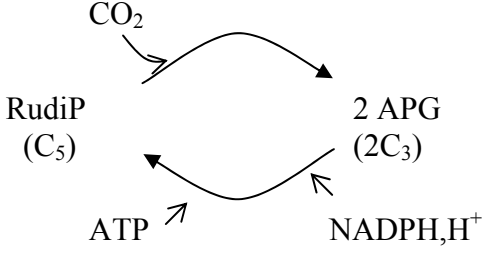
ACU

:3



	isoleucine	thréonine	asparagine	sérine U
A	isoleucine	thréonine	asparagine	sérine C
	isoleucine	thréonine	lysine	arginine A
	méthionine	thréonine	lysine	arginine G
	valine	alanine	acide aspartique	glycine U
G	valine	alanine	acide aspartique	glycine C
	valine	alanine	acide glutamique	glycine A
	valine	alanine	acide glutamique	glycine G
	leucine	proline	glutamine	arginine G

: (1)

<p>0.5 X 4</p>	<p>= ) APG RudiP APG RudiP CO<sub>2</sub></p>	<p>1</p>
<p>0.5X4</p>	<p>(NADPH,H<sup>+</sup> ATP) APG CO<sub>2</sub> APG RudiP RudiP APG</p>	<p>2</p>
<p>2 X 0.5</p>	 <p>CO<sub>2</sub> RudiP (C<sub>5</sub>) 2 APG (2C<sub>3</sub>) ATP NADPH,H<sup>+</sup></p>	<p>3</p>
<p>05</p>		

:

1 1

-1

2	:G1	-	1
	:G2	-	
1	G1 G2	-	2
1	G1 ) C A G2	-	3
1		G2 G1 -	4

4

3

2

1

2	3	2	3,2	:	1	1	
				:1	2		1
				:2			
			(	HbA ARNm )			
				Hbs ARNm	:3		
			, HbA ARNm )	((ADN) Hbs	:4		
				)			
			(	)	:5		
			Val Glu 6	)			
			.				
			6				
				(ADN		3	
				:1			
		1	.	:2		1	
			:				2
				-			
		2		-		2	
			.				